

10/773,657

1-8. (CANCELED)

9. (CURRENTLY AMENDED) A hydrodynamic torque converter comprising[[.]]:

a clutch (2) arranged inside a converter housing (1), said clutch connecting a pump impeller wheel (3) to a drive;

a drive engine; and

a turbine rotor (4) forms a drive output, and a pressure sensor (12) connected to an inner space of the converter determines the pressure inside the converter housing (1); and

wherein the pressure sensor (12) is arranged in a positionally fixed component (13).

10. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 9, wherein the clutch (2) is actuated by an actuation device with a piston (9), with a pressure inside the inner space of the converter housing (1) acting on one side of the piston (9) and an actuation pressure acting on another side.

11. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim 9, wherein the converter housing (1) has a pressure line (16) through which the converter's internal pressure is transmitted via a rotary connection (15) to [[a]] the positionally fixed component (13) in which the pressure sensor is arranged.

12. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 10, wherein the piston (9) has at least one aperture (17) through which the converter's internal pressure is transmitted to a pressure line (16).

13. (CANCELED)

14. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim [[13]] 9, wherein the positionally fixed component (13) is connected to a stator of the torque converter.

15. (CURRENTLY AMENDED) The Hydrodynamic torque converter according to claim [[13]] 9, wherein a pressure feed line (10) to an actuation device for the clutch (2) and a coolant liquid feed line (6) are arranged in the positionally fixed component (13).

16. (CURRENTLY AMENDED) A hydrodynamic torque converter, comprising:
a clutch (2) arranged inside a rotatable converter housing (1), said clutch having a piston for connecting a pump impeller wheel (3) to a drive;
a turbine rotor (4) forms a drive output, [[and]]

10/23/05 11:29 AM

- 2 -

BEST AVAILABLE COPY

10/773,657

wherein a pressure within the converter housing (1) is fed via a tapping point in the converter housing adjacent the piston to a hydraulic control unit, which controls an actuation pressure of the clutch (2) as a function of the pressure within a converter housing (1); and

wherein the tapping point in the rotatable converter housing (1) communicates with a pressure line (16) through which the converter's internal pressure is transmitted from the rotatable converter housing (1) via a rotary connection (15) to a relatively fixed component (13) in which the pressure sensor is arranged.

17. (CANCELED)

18. (CURRENTLY AMENDED) A hydrodynamic torque converter for a drive train of a vehicle comprising:

a converter housing connected to a drive engine, the converter housing containing;

a pump impeller for connecting with the converter housing;

a turbine rotor (4) forming an output drive,

a clutch (2) arranged inside the converter housing (1) for connecting the pump impeller wheel (3) to the converter housing according to an applied clutch pressure; [[and]]

a pressure sensor (12) directly connected with an inner space of the converter housing via a fluid passage to determine a pressure inside the converter housing (1) and regulate the applied clutch pressure as a function of the pressure inside the converter housing; and

wherein the pressure sensor (12) is arranged in a positionally fixed component (13).

19. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 18, wherein the clutch (2) is actuated by an actuation device with a piston (9), with the pressure inside the inner space of the converter housing (1) acting on one side of the piston (9) and an actuation pressure acting on another side.

20. (CANCELED)

21. (PREVIOUSLY PRESENTED) The hydrodynamic torque converter according to claim 19, wherein the piston (9) has at least one aperture (17) through which the pressure inside an inner space of the converter housing (1) is transmitted to a pressure line (16).

10/25/05 11:09 AM

- 3 -

BEST AVAILABLE COPY

10/773,657

22. (CANCELED)

23. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim [[22]] 18, wherein the positionally fixed component (13) is connected to a stator of the torque converter. ◆

24. (CURRENTLY AMENDED) The hydrodynamic torque converter according to claim [[22]] 18, wherein a pressure feed line (10) to an actuation device for the clutch (2) and a coolant liquid feed line (6) are arranged in the positionally fixed component (13). ◆